



DI-624

Up to
15x
Faster

- Now Up to 108Mbps and Backwards Compatible to 11g & 11b
- Advanced Firewall & Parental Control
- Built-In 4-port Switch
- New Integrated Cable Diagnostic Utility
- Increased Security with 802.1X and WPA

11g
802.11g
108Mbps

2.4
GHz

CABLE
TESTER

Total 802.11
Super
G
ATHEROS

FREE
24/7
TECH
SUPPORT
USA ONLY

AirPlus Xtreme G™

802.11g/2.4GHz Wireless

108Mbps Router

D-Link, the industry pioneer in wireless networking, introduces another performance breakthrough in wireless connectivity—the *D-Link AirPlus Xtreme G™* series of high-speed devices capable of transfer rates now up to 15x faster than standard 802.11b with D-Link 108G. And with the new *AirPlus Xtreme G* DI-624 4-Port Wireless Router, D-Link once again sets a new standard for wireless broadband routers.

With the enhancement of D-Link 108G, the DI-624 can achieve wireless speeds up to 15x in a pure D-Link 108G environment through the use of new wireless techniques such as Packet Bursting, FastFrame, Compression & Encryption, and Turbo mode. This provides a bandwidth large enough to handle video/audio streaming and Video on Demand (VoD) applications.

The DI-624 features the very latest in advanced wireless silicon chip technology including enhanced security to shield and protect your wireless communication from intruders. It also includes D-Link's

own robust firewall security features. The DI-624 is ideal for those creating their first wireless network, as well as for more advanced users looking for additional management settings and policy-based content filtering. Filters can be set based on MAC address, IP address, URL and/or Domain Name. A simple, yet intelligent, web-based setup wizard makes the DI-624 easy for any user to quickly and securely connect computers to share a high-speed Internet connection, files, resources, games or just to communicate. An integrated 4-port switch allows direct connection of up to four computers.

Several wireless clients can also securely connect to the network using WPA (Wi-Fi Protected Access), as well as 802.1X authentication, providing you a much higher level of security and authentication than has previously been available. Additional security features include VPN pass-through of multiple concurrent IPSec and PPTP sessions for telecommuters or for anyone who needs to transmit sensitive information more securely.

AirPlus Xtreme G™

802.11g/2.4GHz Wireless

108Mbps Router

DI-624



SPECIFICATIONS

Standards

- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.3
- IEEE 802.3u

VPN Pass Through / Multi-Sessions

- PPTP • L2TP • IPSec

Advanced Firewall Features (see table to right)

Device Management

- Web-Based – Internet Explorer v6 or later; Netscape Navigator v6 or later; or other Java-enabled browsers.
- DHCP Server and Client

Wireless Data Rates With Automatic Fallback

- D-Link 108G: 108Mbps

- 54Mbps • 48Mbps
- 36Mbps • 24Mbps
- 18Mbps • 12Mbps
- 11Mbps • 9Mbps
- 6Mbps • 5.5Mbps
- 2Mbps • 1Mbps

Security

- 64-, 128-bit WEP
- 802.11X
- WPA —Wi-Fi Protected Access
- WPA-PSK (Pre-Shared Key)

Media Access Control

CSMA/CA with ACK

Frequency Range

2.4GHz to 2.472GHz

Signal Range¹

Indoors: Up to 100 meters
Outdoors: Up to 400 meters

Modulation Technology

- Orthogonal Frequency Division Multiplexing (OFDM)
- Complementary Code Keying (CCK)

Receiver Sensitivity

- 54Mbps OFDM, 10% PER, -68dBm)
- 48Mbps OFDM, 10% PER, -68dBm)
- 36Mbps OFDM, 10% PER, -75dBm)
- 24Mbps OFDM, 10% PER, -79dBm)
- 18Mbps OFDM, 10% PER, -82dBm)
- 12Mbps OFDM, 10% PER, -84dBm)
- 11Mbps CCK, 8% PER, -82dBm)
- 9Mbps OFDM, 10% PER, -87dBm)
- 6Mbps OFDM, 10% PER, -88dBm)
- 5.5Mbps CCK, 8% PER, -85dBm)
- 2Mbps QPSK, 8% PER, -86dBm)
- 1Mbps BPSK, 8% PER, -89dBm)

Wireless Transmit Power

15dBm ± 2dB

External Antenna Type

Single detachable reverse SMA

LEDs

- Power • WAN • LAN (10/100)
- WLAN (Wireless Connection)

Operating Temperature

0°C to 55°C

Humidity

95% maximum (non-condensing)

Power Input

Ext. Power Supply DC 5V, 2.4A

Dimensions

- L = 190.5mm
- W = 116.84mm
- H = 35mm

Weight

298g

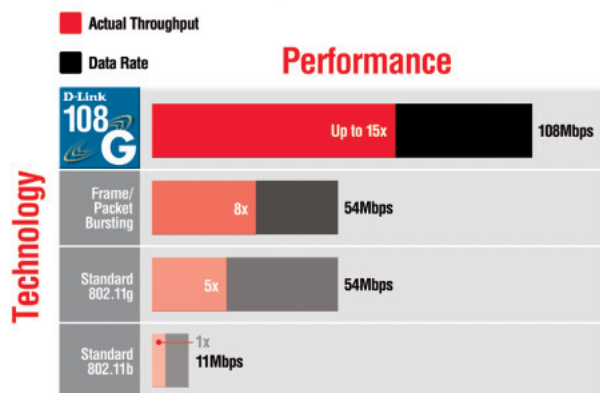
Certifications

- FCC, CE

Warranty

2 Year

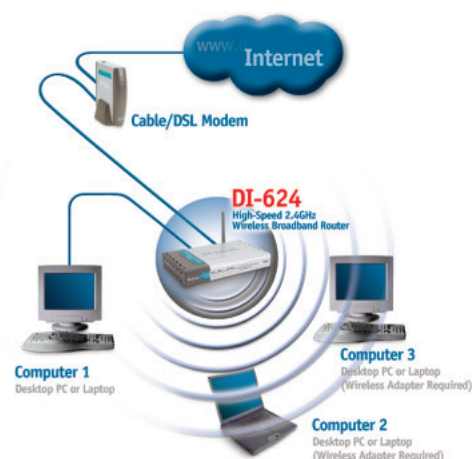
¹ Environmental factors may adversely affect wireless signal range.



D-Link 108G performance results are based on testing with other D-Link 108G enabled devices utilizing Packet Bursting, FastFrames, Turbo Mode and Compression techniques. Data already compressed may not benefit from the D-Link 108G compression technique.

Advanced Firewall Features

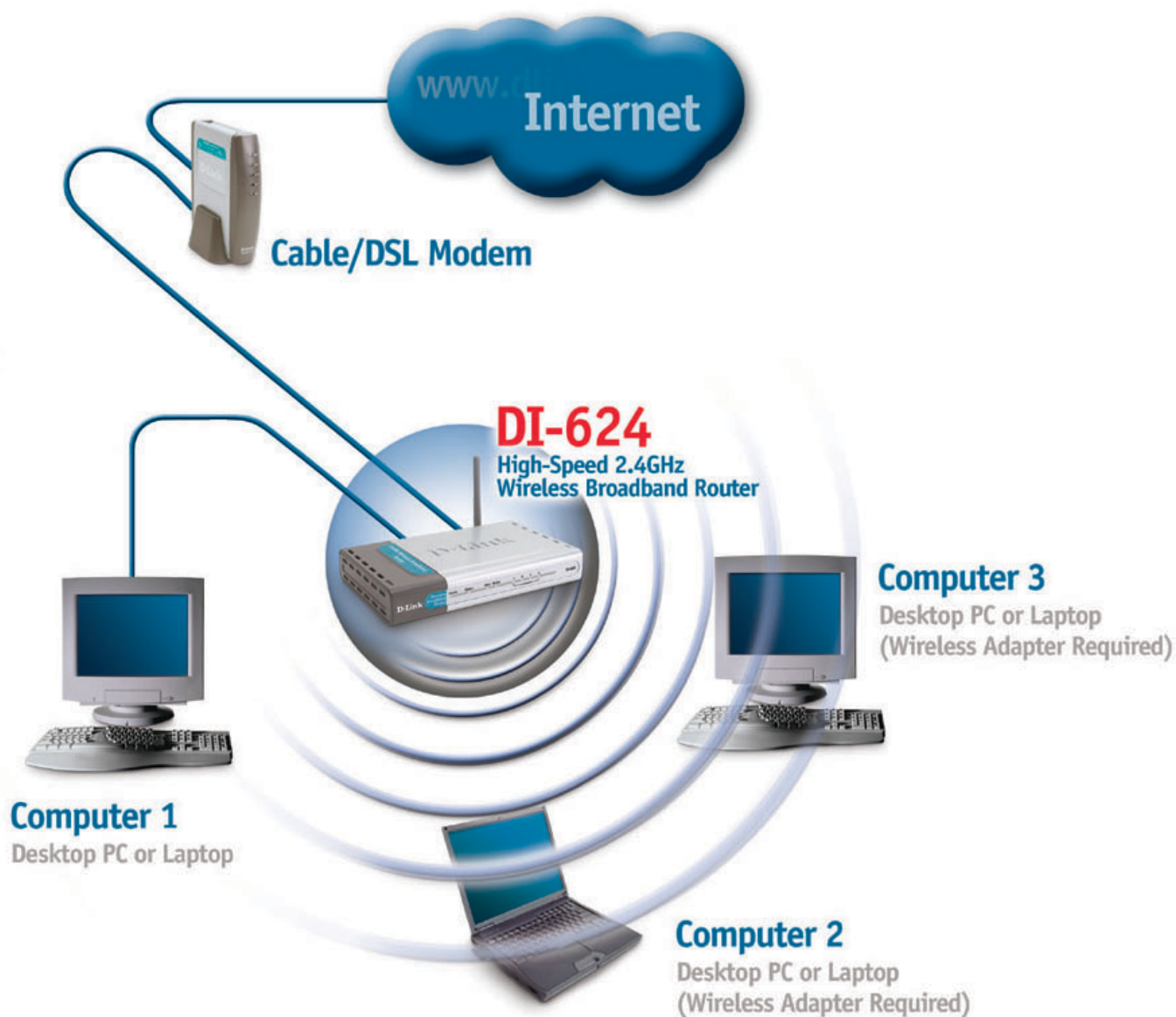
Feature	Available
NAT with VPN Passthrough (Network Address Translation)	✓
MAC Filtering	✓
IP Filtering	✓
URL Filtering	✓
Domain Blocking	✓
Scheduling	✓



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D-Link®

Building Networks for People



AirPlusXTREMEG[™]



— DWL-G650

54Mbps 802.11g Wireless LAN CardBus Adapter for notebook PC

802.11g Wireless LAN CardBus Adapter

The D-Link AirPlusXtremeGTM DWL-G650 Wireless Cardbus Adapter is an enhanced 802.11g high-performance, wireless adapter for notebook computers. This adapter supports high-speed wireless networking of up to 54Mbps, while providing seamless interoperability with all existing 802.11b and 802.11b+ wireless equipment. Together with better security, this adapter is the ideal wireless solution that offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

Up to 54Mbps Transmission Speed

Unlike most wireless cards, the DWL-G650 provides speeds of up to 54Mbps when used with other D-Link AirPlusXtremeG and other 802.11g products. This compares favorably with 802.11b adapters that offer 11Mbps speed, and with 802.11b+ adapters that give 22Mbps transmission. The DWL-G650 provides all these using a single 2.4GHz wireless frequency, eliminating the complexity of dualband networking.

This enhanced speed and adoption of 2.4GHz frequency, now available for public use in most countries, plus the mobility and convenience inherent in a wireless LAN, make this adapter an ideal solution for bandwidth intensive WLAN applications.

Compatible With 802.11b and 802.11b+

802.11g compability with existing wireless LAN standards means that you do not need to change your entire network to maintain connectivity. You may sacrifice some of 802.11g's speed when you mix 802.11b and 802.11b+ with 802.11g devices, but you will not lose the ability to communicate.

The DWL-G650 is compatible with existing 802.11b and 802.11b+ devices such as the D-Link Air, AirPlus and AirPro family of products, including the DWL-520, DWL-520+, DWL-AB520 and DWL-120 wireless adapters, and the DI-714 wireless router.

Easy Migration to Higher Bandwidth

By maintaining compatibility with your existing wireless network equipment, this adapter lets you upgrade to a higher speed at the pace you want. The the DWL-G650 and other

802.11g standard devices can be gradually added to your network, while the rest of your older network remains perfectly connected.

Powerful Performance

To take full advantage of the new 54Mbps network bandwidth, this adapter uses 32-bit high-speed CardBus design to transfer network data with the computer host. This ensures that no bottlenecks take place between your computer's CPU and your network wireless frequency.

Advanced Security

In addition to offering faster data transfer speeds, this adapter also provides the newest, strongest, most advanced security features available today. For home users that do not incorporate a radius server in their networks, security is provided in a convenient, automatic way (when used in conjunction with other 802.11g products). No longer will you have to frequently input a new WEP key to execute security operations. With the DWL-G650, you will automatically receive a new key every time you connect, doing away with the inconvenience of manual WEP key input.

Easy Installation

With hot swap and plug-and-play capabilities, this adapter can be easily installed into a notebook PC for direct connection to any wireless device in the ad-hoc mode or infra-structure mode. Access to your wired Ethernet servers is also provided through your wireless LAN access points.

Key Features

- 32-bit high-performance CardBus (PC Card Type II) adapter for notebook computer
- 802.11g industry standard
- Uses popular 2.4GHz frequency band
- Up to 54Mbps network data transfer rate, 5 times faster than 802.11b
- Strong 64/128-bit WEP data encryption security
- Compatible with existing 802.11b, 802.11b+ wireless devices
- Powerful integrated antenna provides 100 meter indoors, 400 meter operation range
- Easy configuration, plug-and-play installation
- Runs Windows 98SE, 2000, ME, XP

DWL-G650

Technical Specifications

2.4GHz Wireless LAN

Standards

802.11g wireless LAN

Adapter Type

PC Card Type II CardBus

Media Access Control Protocol

CSMA/CA with ACK

Network Architecture Types

- Ad-Hoc mode
- Infrastructure mode

Frequency Range

2.4 - 2.4835 GHz

Operating Channels

- US (FCC): 11
- Europe (ETSI): 13
- Canada (D)C: 11

Network Transfer Rate/Modulation Technique

- 802.11b:
 - 11Mbps, 5.5Mbps: CCK
 - 2Mbps: DQPSK
 - 1Mbps: DBPSK
- 802.11g:
 - 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps: OFDM (Orthogonal Frequency Division Multiplexing)

Data Encryption

64/128-bit WEP (Wired Equivalent Privacy)

Antenna

Internal patch antenna supporting diversity

Operation Range

- Indoors: up to 100 meters (328 feet)*
- Outdoors: up to 400 meters (1,312 feet)*

* Environmental factors may adversely affect range

Physical & Environmental

Diagnostic LEDs

- Link
- Activity

Operating Voltage

3.3V

Power Consumption

- Transmission: 500 mA (max.)
- Reception: 380 mA (max.)

Dimensions

118 (L) x 54 (W) x 7.4 (H) mm
(4.64 x 2.13 x 0.29 inches)

Operating Temperature

0° - 55°C (32° - 131°F)

Storage Temperature

-20° - 75°C (-4° - 167°F)

Humidity

Up to 95% non-condensing

Emission (EMI)

- FCC
- CE

OS Support

Windows 98SE, ME, 2000, XP



LISTED
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E141136
66F9



Ordering Information

DWL-G650

802.11g Wireless LAN CardBus Adapter

D-Link®

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